

# Integrated Public Alert and Warning System IPAWS Rollout Update Joint Special Interest Group

September 21, 2011



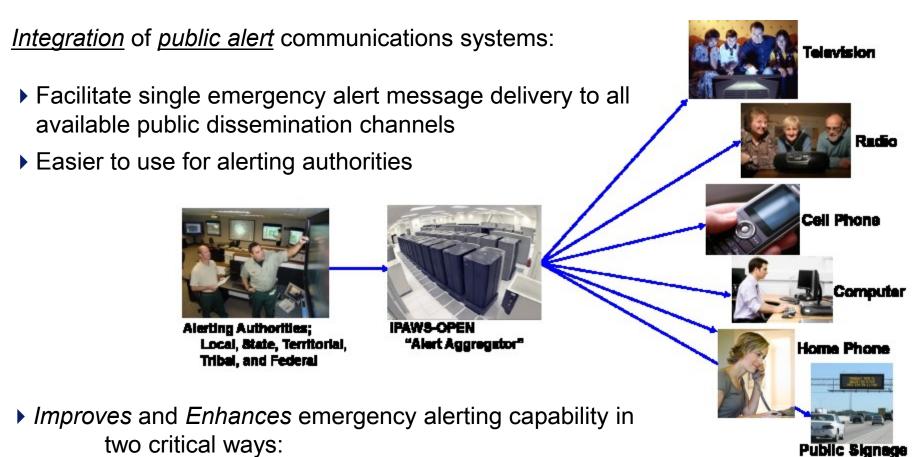
# **Agenda**

- 1. IPAWS Basics, Rollout Status
- 2. EMI Independent Study Course Development
- 3. Account application procedures
- 4. Technical matters for private and public sector IPAWS developers



#### **IPAWS Vision**

#### "Timely Alert And Warning To American Citizens In The Preservation of Life And Property"

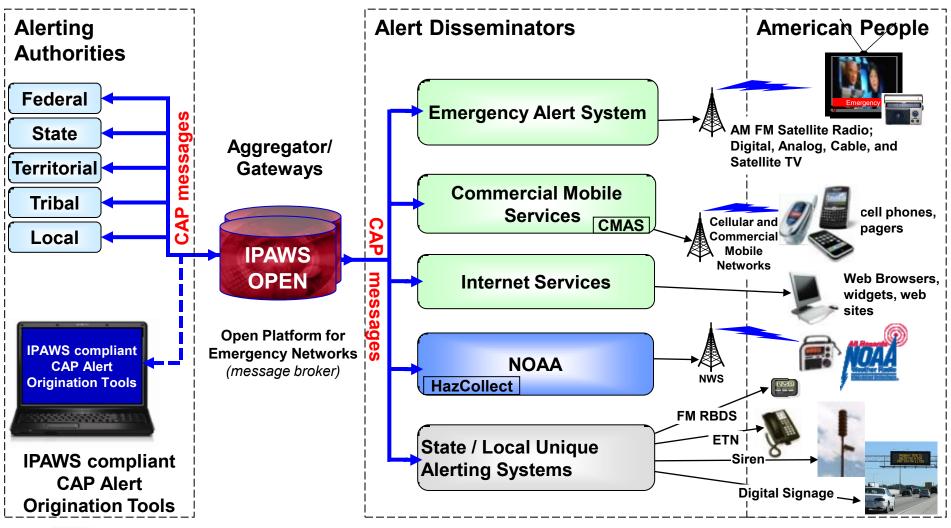


- increases reliability that affected citizens receive an alert via at least one path
- increases likelihood that citizens reacts to emergency alerts



#### **IPAWS Architecture**

Standards Based Alert Message protocols, authenticated alert message senders, shared, trusted access & distribution networks, alerts delivered to more public interface devices





# **Emergency Alert System (EAS) Highlights**

- ▶ IPAWS does not replace the systems you are currently using to route alerts to EAS
- ▶ FCC deadline for EAS participants (radio, TV, etc.) to install equipment capable of receiving CAP formatted alerts is now June 30, 2012
- Many participants have already installed updated equipment which will be programmed to poll an IPAWS Atom Feed
- Encoder/decoder equipment has been tested by FEMA and Supplier's Declarations of Conformity are available on the Responder Knowledge Base (RKB) Website <a href="http://www.rkb.us">http://www.rkb.us</a>
- ▶ Further FCC rulemaking to incorporate CAP into Part 11 EAS rules is expected this year
- New rules will clarify requirements for EAS participants to relay alerts from state/territorial governors



# **Commercial Mobile Alert System (CMAS) Highlights**

- Cell broadcast to enabled handsets (not SMS text)
  - No cost to the user.
  - Opt out, not opt in.
- Will carry three kinds of alerts
  - Presidential
  - Imminent Threat (must meet urgency, severity, certainty requirements)
  - AMBER
- ▶ 90 Character message is automatically populated based on CAP values selected by the originator
- ▶ IPAWS is the only system providing access to CMAS
- Participating cellular service providers are required to begin deploying CMAS during April 2012



# **NOAA National Weather Service Highlights**

- ▶ IPAWS-OPEN routes Non Weather Emergency Messages (NWEMs) to NWS HazCollect system
- Distributed via NOAA Weather Radio, other NWS dissemination systems, EAS
- ▶ IPAWS is the only *automated* system providing access to HazCollect
- Alerting authority through HazCollect is managed by NWS

# Other Dissemination Systems Highlights

- Several developers are working on applications to retrieve and disseminate IPAWS alerts via the Web
- IPAWS also enables interoperable exchange of alerts and data between responding organizations



#### **IPAWS Rollout Status**

- ▶ IPAWS-OPEN 2.0 (CAP 1.1) available now for interoperable message exchange
- Developer test environment available now
- ▶ September 30, 2011 − OPEN 1.0 and DMIS Tools decommissioned
- ▶ October 2011 IPAWS-OPEN 3.0 (CAP 1.2) in production environment; EAS Atom feed, interoperable message exchange and HazCollect, CMAS gateway functions on line
- November 2011 NWS expected to begin issuing weather alerts via IPAWS in addition to current methods
- ▶ April 2012 cellular carriers CMAS capabilities begin to become available
- ▶ June 2012 FCC deadline for EAS participants to be able to receive CAP-formatted EAS alerts per Part 11 rules



# **Emergency Management Institute Independent Study Course Development**

- ▶ A Web-delivered Independent Study course is currently in development that will cover:
  - Introduction to IPAWS
  - Principles of Appropriate, Effective, and Accessible Alert and Warning Messages
  - Composing Common Alerting Protocol Messages
- A variety of Subject Matter Experts have participated in the design and review of the course
- ▶ A beta version will be available in the mid-October 2011 timeframe
- ▶ We invite you to participate. If interested, please write to <a href="mailto:IPAWS@dhs.gov">IPAWS@dhs.gov</a>
- Depending on the results of the beta, the final version is expected to be published early 2012
- ▶ Local alerting authorities will be required to demonstrate successful completion of the course as a condition of IPAWS access (within 60 days of publication)



# What do you need to do to use IPAWS?

- Your organization may apply for IPAWS access as soon as:
  - 1. Application forms are published, AND
  - 2. You have acquired IPAWS-compatible alert authoring software (i.e., your vendor is on the list of OPEN Developers and the planned functionality is indicated)
- Security Memorandum of Agreement (MOA) with FEMA (required by DHS) to establish an IPAWS Collaborative Operating Group (COG) account
- ▶ A COG may be established at the state/territorial, regional, or local level
- ▶ The COG administers their own member accounts through their software system
- If the COG is established for the purpose of interoperable exchange with other COGs only, no further application is required
- Once the MOA process is completed, a digital certificate is returned that your vendor will install to digitally sign all your messages



# **Application for Public Alerting**

- ▶ If the organization seeks public alerting authority through IPAWS, an additional application is required
- Application is on behalf of the COG organization
- Indicates the systems applied for (EAS, CMAS, HazCollect)
- Establishes the geographic extent of authority
  - Statewide?
  - Multi-county?
  - Single county?
- ▶ Establishes the type of EAS/SAME non-weather event codes used by the organization consistent with state and local EAS plans
- ▶ FEMA proposes that all alerting applications be routed and signed by a designated state authority (e.g., state emergency management agency Director or designee, Operations Chief, Communications Officer) before sending to FEMA

# **Comments and Questions**

▶ IPAWS Website - <a href="http://www.fema.gov/emergency/ipaws">http://www.fema.gov/emergency/ipaws</a>

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